

Amendments to the Claims

Claim 1 (Currently amended): ~~A canola seed designated~~ Seed of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 2 (Original): A canola plant, or parts thereof, produced by growing the seed of claim 1.

Claims 3-42 (Canceled)

Claim 43 (Currently amended): The canola plant part of claim 2, wherein said part is pollen.

Claim 44 (Currently amended): The canola plant part of claim 2, wherein said part is an ovule.

Claim 45 (Currently amended): A tissue culture of ~~protoplasts or~~ regenerable cells from the plant of claim 2.

Claim 46 (Currently amended): A tissue culture according to claim 45, wherein the cells or protoplasts of the tissue culture ~~being of~~ are from a tissue selected from the group consisting of ~~[[:]]~~ leaf, pollen, cotyledon, hypocotyl, ~~embryo~~ embryo, root, pod, flower, shoot and stalk.

Claim 47 (Currently amended): A canola plant regenerated from the tissue culture of claim 45, ~~having~~ wherein the plant has all the morphological and physiological characteristics of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 48 (Currently amended): A method for producing a first generation hybrid canola seed ~~comprising~~ wherein the method comprises: crossing the plant of claim 2 with a different inbred parent canola plant, and harvesting the resultant first generation hybrid canola seed.

Claim 49 (Currently amended): The method of claim 48 for producing a first generation hybrid canola seed, wherein the female parent is designated 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 50 (Currently amended): The method of claim 48 for producing a first generation hybrid canola seed, wherein the male parent is designated 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 51 (Previously presented): A canola plant, or parts thereof, having all the physiological and morphological characteristics of the plant of claim 2.

Claim 52 (Currently amended): The canola plant part of claim 51, wherein said part is pollen.

Claim 53 (Currently amended): The canola plant part of claim 51, wherein said part is an ovule.

Claim 54 (Currently amended): A tissue culture of ~~protoplasts or~~ regenerable cells from the plant of claim 51.

Claim 55 (Currently amended): A tissue culture according to claim 54, wherein the cells or protoplasts of the tissue culture ~~being of~~ are from a tissue selected from the group consisting of ~~of~~ leaf, pollen, cotyledon, hypocotyl, ~~embryo~~ embryo, root, pod, flower, shoot and stalk.

Claim 56 (Currently amended): A canola plant regenerated from the tissue culture of claim 51, ~~having~~ wherein the plant has all the morphological and physiological characteristics of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 57 (Currently amended): A method for producing a first generation hybrid canola

~~seed comprising wherein the method comprises:~~

crossing the plant of claim 51 with a different inbred parent canola plant, and harvesting the resultant first generation hybrid canola seed.

Claim 58 (Currently amended): The method of claim 57 for producing a first generation hybrid canola seed, wherein ~~the different inbred canola plant seed of canola variety 45A55,~~ representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684 is a the female parent.

Claim 59 (Currently amended): The method of claim 57 for producing a first generation hybrid canola seed, wherein ~~the different inbred canola plant seed of canola variety 45A55,~~ representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684 is a the male parent.

Claim 60 (Currently amended): A method for producing a first generation (F1) canola variety progeny canola plant, ~~comprising wherein the method comprises:~~

- (a) crossing canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684 with a second canola plant to yield progeny canola seed; and
- (b) growing said progeny canola seed, under plant growth conditions, to yield said first generation (F1) canola variety 45A55 progeny canola plant.

Claim 61 (Currently amended): A method for producing a male sterile canola line ~~comprising wherein the method comprises:~~
crossing the canola plant of claim 2 with a second canola plant to yield progeny canola seed, wherein the second canola plant is the female parent and has cytoplasmic male sterility; and growing said progeny canola seed to yield an F1 male sterile canola plant.

Claim 62 (New): Protoplasts produced from the tissue culture of claim 45.

Claim 63 (New): Protoplasts produced from the tissue culture of claim 54.

Claim 64 (New): A method for producing a male sterile canola line wherein the method comprises:
crossing the canola plant of claim 2 with a second canola plant to yield progeny canola seed,
wherein the second canola plant has nuclear male sterility; and
growing said progeny canola seed to yield an F1 male sterile canola plant.